Public Works (1901) Department.

G.O., No. 281 } d
282 }

DATED 19 March 1901.

~~100~~ 70/3

38/2 copies of Estimate docket at the back
30 copies for the S.P. of Estt. & remarks.
22/3/01

1/281-82

(1) P-13 O-12

[Despatch Abstract.]

Vadagarai tank, Periyar Project

Estimate of Rs 5830 for improvements to the ——— Sanctioned, with remarks; & a copy of the Pro: ordered to be forwarded to the Govt of India.

Vadagarai tank, Periyar Project

Forwarding copy of Pro: sanctioning, with remarks, estimate of Rs 5830 for improvements to the ———.

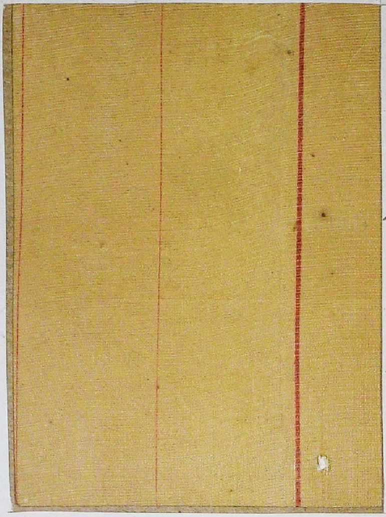
K. R.

P. W. 26.
1,500—11-8-00.

1/6 [illegible]

Recd 20/3

INDEXED



தமிழ்நாடு ஆவணக்காப்பகம்

பாதுகாப்பு (Pr1) பிரிவு பணி எண் : 219/36

செப்பனிட்டவரின் பெயர் : சு. மலர்விழி

ஆவணத்திலுள்ள மொத்த தாட்கள் : 13

செப்பனிட்டு முடித்த நாள் : 28-4-2021

செப்பனிட்டவரின் கையொப்பம் :

--- சரிபார்க்கப்பட்டது---

பணி வழங்கிய எழுத்தர் (Issue Clerk)

பணி சரிப்பார்த்த எழுத்தர் (Checking Clerk)

பிரிவுத் தலைவர்

IRRIGATION
ACCOUNT.

Government {1901} of Madras.

PUBLIC WORKS.

2
281-2

Recd. } 1901. *Enclosures*

Regd. *Spare copies*

G.O., Nos. 281, 282 I., 19th March 1901.

MARCH.

Vadagarai Tank, Periyar Project

Forwarding copy of Proceedings sanctioning, with remarks, estimate of Rs. 5,830 for improvements to the —.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

READ—the following papers :—

From the Superintending Engineer, VI Circle, dated 15th February 1901, No. 148 M.D.

ENCLOSURES.

REPORT to accompany the Estimate for repairs and improvements to No. 10 Vadagarai Kanmoy.

	RS.
Amount of Estimate—	
Improvements	4,740
Repairs	2,660
Total ...	7,400

General.—This is a railway-affecting imperial tank having an ayacut of 2,604 acres, yielding an annual revenue of Rs. 18,228 to Government. The tank has a catchment area of 25 square miles with a free basin of 3½ square miles and is supplied at present from Vadagarai channel, 1st branch channel and 2nd branch channel.

Surplus Arrangement.—The surplus arrangements are defective. The surplus is at present disposed of through the existing calingulahs and a surplus escape of five vents, all close to the left flank. The two existing calingulahs, whose crest level is 3 feet below F.T.L., will be made into one large calingulah with some additional vents in the extension. There is a masonry wall 70 feet long in rear of the existing calingulahs which divides the surplus, a portion going to Kattakulam and Thenur tanks. This wall is leaky and provision is made for repairing it. A vent is provided, so that water for the portion of the ayacut may, when necessary, be supplied direct (*viâ* B_2) without first filling the tank. The surplus escape of five vents, called Nallanayagam escape, will be converted into a calingulah 70 feet 6 inches long, as per accompanying plan, as the existing vents are too small and insufficient to dispose of the balance of surplus.

Sluices.—The tank has eight sluices for irrigation, six of which are in bad order. There is no means of regulating them, and they are dilapidated and the cills are from 5 to 10 feet below the level of the lands in rear which they irrigate. Sluices Nos. 1 and 2 are close together, being but 400 feet apart, and it is proposed to construct a new sluice at the site of sluice No. 1, and irrigate the ayacut of No. 2 sluice from it. There is an old dam in rear of sluice No. 1, built across the surplus channel, which latter runs parallel to the tank bund for about 10 chains, for irrigating some high level lands. As the dam is leaky, provision is made for repairing and improving it to the extent shown in the plan and detail estimate. Sluice No. 3 or Velurmadai will be reconstructed. Sluices Nos. 4 and 5 will remain. Sluices Nos. 6 and 7 are close to 1st branch channel head sluice and it is not proposed to construct new sluices in their places, but 1st branch channel head sluice will be altered as shown in the plans to irrigate the ayacuts under these sluices.

Provision is made in this estimate for excavating field channels from the new sluices in rear of B^1 head sluice to the sites of sluices Nos. 6 and 7.

A new sluice will be built at C.S No. 8 to replace sluice No. 8.

Provision is made for raising the bund to 4½ feet above M.W.L. with a top width of 6 feet and side slopes of 1½ to 1 in front and rear, respectively, from the left flank to C.S. No. 26 and in other places to 3½ above M.W.L. with 5 feet top width. The bund is overgrown with prickly-pears and provision is made in the estimate for removing it.

The inner slopes of the bund from sluice No. 1 at left flank to C.S No. 19 will be revetted with the stones at site as the existing revetment has collapsed. The works will be built of random rubble and concrete. Data sheets accompany the estimate.

The work will be carried out according to the current departmental standard specifications.

24th January 1901. (Signed) H. T. KEELING,
Ex. Engnr., Madura Divn.

Estimate Form—Abstract—Classified.

Sub-head.	Names of works.	Amount of estimate for individual work.	Total of sub-heads.	Total for each canal or distributary.	Total of each main head.
1	2	3	4	5	6
	CAPITAL EXPENDITURE NOT CHARGED TO REVENUE.	RS.	RS.	RS.	RS.
	49. Irrigation.				
	Periyár Project.				
	Open Capital Account.				
	I. Works.				
	3. Distributaries.				
	Unremunerative Works.				
	Improvements to No. 10 Vadagarai tank.				
3. Works ..	1. Constructing a masonry sluice	1,120			
	2. Improvements to dam in rear of sluice No. 1 ..	285			
	3. Constructing a masonry sluice	1,030			
	4. Constructing 3-feet drop in rear of branch channel, No. 1 sluice	345			
	5. Constructing masonry sluice right side of drop ..	120			
	6. ,, ,, left ,, ..	165			
	7. ,, cement pipe sluice	420			
	8. Improvements to existing calingulah left flank ..	270			
	9. Converting Nallanayagam escape into a calingulah.	410			
			4,165		
4. Earthwork ..	1. Cutting field channel	575			
			575		
	Total, I. Works	..	..	4,740	
	II. Establishment ..	..	..	1,090	
	Total, Estimate ..	..	..	5,830	

No. 65 I.

Note by the Chief Engineer for Irrigation.

The Superintending Engineer, VI Circle, submits an estimate of Rs. 4,740 for improving the Vadagarai tank (a railway affecting-tank) in the Madura district, which is supplied from the Vadagarai channel and the 1st and 2nd branch channels of the Periyár project, and has an ayacut of 2,604 acres, yielding a revenue of Rs. 18,228. The proposed improvements consist of the conversion of the existing calingulahs at the left flank into one large calingulah with vents in the extension and of the existing surplus escape into a calingulah 70 feet 6 inches long, construction of a new sluice to take the place of sluices Nos. 1 and 2 in bad order, reconstruction of sluices Nos. 3 and 8, altering the head sluice of the 1st branch channel to irrigate the ayacuts under sluices Nos. 6 and 7, excavating field channels connecting the head sluice with the old sluices, and improving and repairing the old dam across the surplus channel in rear of sluice No. 1. The estimate may be sanctioned.

2. The work is classed as unremunerative, as it is not directly remunerative in itself, but being required for the full development of the Periyár project, may be charged to the Open Capital account thereof. It will probably be completed by the 31st March 1902.

3. The Superintending Engineer has sanctioned an estimate of Rs. 2,660 for raising and strengthening the bund and repacking the revetment under "42. Major Works (Working Expenses), Maintenance and Repairs." It is considered that the bund should have 2 to 1 slopes in rear. The Superintending Engineer will be instructed to have the estimate sanctioned by him revised accordingly.

(Signed) W. HUGHES,
Chief Engineer for Irrigation.

12th March 1901.

ORDER—No. 281 I., dated 19th March 1901.

The estimate, amounting to Rs. 4,740, or Rs. 5,830, including the charge for establishment, for improvements to Vadagarai tank, Periyár project, is sanctioned.

2. This sanction is registered as No. 200 I. of 1900-1901 and will expire on the 31st March 1902.

3. The attention of the Superintending Engineer, VI Circle, is drawn to paragraph 3 of the foregoing note by the Chief Engineer for Irrigation.

4. Ordered that a copy of these Proceedings be forwarded to the Government of India for information.

[Here enter No. 282 I., dated 19th March 1901.]

(True Extract.)

(Signed) W. HUGHES,
Joint Secy. to Government,
Irrigation Branch.

To the Chief Engineer for Irrigation
,, Superintending Engineer, VI Circle, with 39 enclosures.
,, Examiner of Public Works Accounts.

ENDORSEMENT—No. 282 I., dated 19th March 1901.

Forwarded.

(By order.)

(Signed) W. HUGHES,
Joint Secy. to Government,
Irrigation Branch.

Exd. A. J. D'Monte.

(4)

Public Works (I[?]) Department.

CURRENT No. 13 M.D.

4(1) / 281-2

4(1) / 281-2)

From

The Supdg Engineer

[?] Circle

No. 148 M.D.

Dated 15th February 1901

Received } 18. 2. 01.

Registered

Enclosures 24 { 23 plans (in a roll) / 1 file of report, estimate

Spare copies.

Order.—

D.E.I.

SUBJECT.

Re 10 - Vaddgurce Tank

Submitting for sanction plans & estimate amounting to Rs. 4,740 for improvements to —

lcw
18/2/01

No. 148 MD

OFFICE OF THE SUPERINTENDING ENGINEER,

6TH CIRCLE,

TRICHINOPOLY, 15 February 1901.

(5)

8/16

From

Colonel A. W. Boddy, R.E.,

Superintending Engineer,

6th Circle.

To

The Chief Engineer,

for Irrigation.

5/281-2

FOR ... 18 FEB. 1901 ... 13 M.D.

SIR,

ENCLOSURES 21.

1. Sketch map of Vadagarai Kommoy
3 Longl. Sections
12 Cross Sections
2. Sheets of plan of Masonry Sluices
1 Plan of drop and Sluice
1 Sheet of Longl. Section of propd. Chl.
1 Plan of pipe sluice
1 Plan of Existing Calungulah
1 Plan of escape
1 Estimate with Report etc.

21

23 tracings sent separately.

I have the honor to submit herewith for sanction of Government plans and estimate amounting to Rs 4,740 for improvements to No. 10 Vadagarai tank in Madura District. This is an imperial tank and also a railway affecting one having an ayacut of 2604 acres and yielding an annual Revenue of Rs 18,228 to Government.

2. The tank has a catchment basin of 2.5 sq miles with a free basin of 3½ sq miles and is supplied from the Vadagarai Channel and from the 1st and 2nd Branch channels of the Periyar Project. The surplus arrangements are defective. The surplus is at present disposed of through two Calingulahs and a surplus escape of 5 ken[illegible] all close to the left flank.

3. The two existing Calingu[illegible] have their crest level at 3 ft below F.T.

tank. Their lengths are 12'-9" and 58'-3" between wings and they are provided with dams &1 r+1

It is proposed to convert these two Calingulahs into one, having a length of 99 ft. There is a dividing wall 110 ft adjoining the existing Calingulahs, by which the surplus is diverted to the Kattakulam and Thenur tanks. It is proposed to repair this wall, and for purposes of regulation to introduce a small vent in it.

The surplus escape of 5 vents called pallarayagam escape is proposed to be also converted into a calingulah 70'-6" long as per plan accompanying, as the existing vents are too small and incapable of disposing of the balance of surplus.

The discharge from the tank to be provided for is 3,505 cusecs, the surplus arrangement, when improved as now proposed, will be capable of discharging 3586 cusecs.

There are 8 sluices for the irrigation under the tank, 6 of which are in bad order and have no means of regulation. Their sills are from 5 to 10 ft below the level of lands in rear, which they irrigate. Sluices No 1 and 2 at C.S. No 4 and 5 respectively are close together being V 400 ft apart and it is proposed to construct o Sluice at the site of Sluice No 1, with sufficient way to command the ayacut under Sluices. There exists an old dam in Sluice No 1, built across the surplus running parallel to the tank bund for tion of high level lands and as this

is

is reported to be leaky, provision is made in the estimate for repairing it. It is proposed to reconstruct Sluice No 3 at C.S. No 19, as the present Structure is not worth repairing. (Sluices Nos 4 & 5 are in good order.) It is not proposed to reconstruct Sluices Nos 6 and 7 which are in bad order. They will be closed, and the ayacuts under them will be irrigated from the new Sluice built for the head of the 1st Branch Channel, by the formation of a cistern with Side Sluices, and the excavation of field channels. A new Sluice for the irrigation of 108 acres will be constructed in place of Sluice No 8 which is in bad order. I have been over the work with the Executive Engineer and consider that the proposals now made are suitable. No additional revenue will accrue from the proposed works. But they will admit of more economic use of the water.

7. The tank bund is in bad order and has become much worn down, and the old revetment requires repacking. For this purpose I have sanctioned an estimate amounting to Rs 266/- under 42 Major works, Maintenance and Repairs.

8. Data sheets in support of higher rates are attached.

9. As the works now proposed are required for the full development of the tank the

the work is classed as unremunerative.

I have the honor to be

Sir

Your most obedient Servant

J. H. [illegible]

Col. R.E.

Superintending Engineer

II Circle

Mch 22.7.14

Report to accompany the estimate for Repairs & Improvements to No. 10 Vadagarai Kanmoy.

Amount of estimate	Improvements.	...	...	Rs 4730 (4740)
Do.	Repairs.	...	...	Rs 2660.
	Total.	...	...	Rs 7390. (7400)

281-2

General. This is a Railway affecting Imperial Tank having an ayacut of 2604 acres yielding an annual revenue of Rs 18228 to Government. The tank has a catchment area of 25 Sq.miles with a free basin of 3½ sq.miles and is supplied at present from vadagarai channel, 1st B.C. & 2nd B.C.

Surplus arrangement. The surplus arrangements are defective. The surplus is at present disposed of through the existing calingulahs & a surplus escape of 5 vents, all close to the left flank. The two existing calingulahs whose crest level is 3 feet below F.T.L will be made into one large calingulah with some additional vents in the extension. There is a masonry wall 70 feet long in rear of the existing calingulahs which divides the surplus a portion going to Kattakulam & Thenur tanks. This wall is leaky & provision is made for repairing it. A vent is provided so that water for the portion of the ayacut may when necessary be supplied direct (via Bo) without first filling the tank. The surplus escape of 5 vents called Nallanayagam Escape will be converted into a calingulah 70' - 6" long as per accompanying plan, as the existing vents are too small & insufficient to dispose of the balance of surplus.

Sluices. The tank has 8 sluices for irrigation 6 of which are in bad order. There is no means of regulating them, and they are dilapidated & the cills are from 5' - 10' below the level of the lands in rear which they irrigate. Sluices 1 & 2 are close together being but 400 feet apart and it is proposed to construct a new sluice at the site of sluice No. 1. and irrigate the ayacut of No. 2. sluice from it. There is an old dam in rear of sluice No.1. built across the surplus channel which latter runs parallel to the tank bund for about 10 chains, for

irrigating some high level lands. As the dam is leaky provision is made for repairing and improving it to the extent shown in the plan and detail estimate. Sluice No. 3 or veturmadai will be re-constructed. Sluice No. 4 & 5 will remain. Sluices 6 & 7 are close to 1st B.C. Head sluice and it is not proposed to - construct new sluices in their places but 1st B. C. Head sluice will be altered. as shown in the plans to irrigate the ayacuts under these sluices.

Provision is made in this estimate for excavating field channels from the new sluices in rear of B_1 head sluice to the sites of sluices 6 & 7.

A new sluice will be built at C.S. No.8 to replace - sluice No.8 .

Provision is made for raising the bund to 4½ feet above M.W.L. with a top width of 6'-0" feet & side slopes of one and a half to one in front & rear respectively from the left flank to C.S. No.26 and inother places to 3½ above M.W.L. with 5 feet top width. The bund is over grown with prickly pears & provision is made in the estimate for removing it.

The inner slopes of the bund from sluice No.1 at left flank to C.S. No. 19 will be revetted with the stones at site as the existing revetment has collopsed. The works will be built of random rubble & concrete. Data sheets accompany the estimate

The work will be carried out according to the current departmental standard specifications.

[signature] 24/1/07

Executive Engineer,

Madura Division.

Mus/2271a

4 Pr

(9)

ESTIMATE FORM—Abstract—Classified.

Sub-head.	Names of Works.	Amount of Estimate for individual Work.	Total of Sub-heads.	Total for each Canal or Distributary.*	Total of each main head.	Remarks.
1	2	3	4	5	6	7
	Capital Expenditure not Charged to Revenue					
	49. Irrigation					9 / 281-2
	Periyar Project					
	Open Capital account					
	1. Works					
	3. Distributaries					
	Intercommunication Works					
	Improvements to Ins[illegible]					
	Vadagarai ~~[illegible]~~ Tank.					
3 Works	1. Constructing a masonry sluice	1120				
	2. Improvements to Dam in rear of sluice No. 1.	285				
	3. Constructing a masonry sluice	~~1020~~ 1030				
	4. Do 3 ft drop in rear of B. channel No. 1 sluice	~~355~~ 345				
	5. Do masonry sluice Right side of drop.	120				
	6. Do do left side	165				
	7. Do Cement pipe sluice	420				
	8. Improvements to Existing calingula left flank.	270				
	9. Constructing Kattanaga-gam [illegible] a calingulah	410				
	~~Total~~		4165			
4. Earthwork	1. Cutting field channel	575				
	~~Total~~		575			
	~~Grand~~ Total I Works		4,740.			
	II Establishment		1,090.			
	Total Estimate		5,830.			

Sanctioned — [illegible] No. 19.5.1901 and [illegible] on [illegible] 1900-1901

Station [illegible] 29/2/01

Dated 188

Executive Engineer.

P. W. D. Ma[illegible]
Form No. M[illegible]

REFERENCE TO MADRAS P. W. D. CODE.

CHAPTER VII—PARAS 968 & 968 A.

ESTIMATE FORM—ABSTRACT CLASSIFIED.

IRRIGATION.

6th CIRCLE.

[illegible]

DIVISION— Madura

DISTRICT— Do

To accompany the Detailed Estimate No.

of 188 -8 . for* Improvement No. 10 Vadagam Kmm[illegible] Madura Taluq

* Here enter the Name and Description of work in full.

[illegible]

[E. I. / 8] 4,000—22-11-00.

(10)

Public Works (1901) Department

(IRRIGATION BRANCH.)

CURRENT No. 2277. 10/281-21

From

[Name] The Hon'ble Mr. W. Hughes

[Designation] Chief Engineer for Irrigation

[Station] Madras

No. 65 I.

Dated 12' March 1901.

Enclosures { Plans 23 / Others 19 } Total 42

Spare copies

Received } 15-3— 1901.

Registered 190

SUBJECT.

Recommending that the estimate of Rs 58301 for improvements to the Vadapalai tank (a railway affecting tank) may be sanctioned

BACK PAPERS.

FURTHER PAPERS.

PUBLIC WORKS DEPARTMENT,

IRRIGATION BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

(11)

UNDER date the

1 Quate

11
281-21

READ the following

X/ (From the Supg. Engineer, 6th Circle, No. 148 M.D. dt 15th Feb 19..

*Classified abstract estimate amounting to Rs. 68,

× Flag A

Print report & classified Abstract.

Note by the Chief Engineer for Irrigation No. 65-I / 12.3.01

The Supg. Engineer, 6th Circle, submits an estimate of Rs. 47,40 for improving the Vadagarai tank (a railway affecting tank) in the Madura district, which is supplied from the Vadagarai channel and the 1st and 2nd Branch channels of the Periyar project and has an ayacut of 2,604 acres yielding a revenue of Rs. ~~18,265~~ 18,228. The proposed improvements consist of the conversion of the existing calingulahs at the left flank into one large calingulah

65-I

12 March

321

-ents in the extension and of the
existing surplus escape into a
calingulah 70'-6" long, construction
of a new sluice to take the place
of sluices No.s 1 and 2 in bad
order; reconstruction of sluices
No. 3 and 8, altering the head
sluice of the 1st Branch channel
to irrigate the ayacuts under
sluices No.s 6 and 7, and ex-
-cavating field channels connect-
-ing the head sluice with the
old sluices, and improving
and repairing the old dam
across the surplus channel
in rear of sluice No. 1. The
estimate may be sanctioned.

2. The work is classed as
unremunerative as it is not
directly remunerative in itself,
but being required for the full
development of the Periyar
project may be charged to the
open capital account thereof.

12/281-2

(12)

It will probably be completed by the 31st March 1902.

68

3. The Supg: Engineer has sanctioned an estimate of Rs 2660 for raising and strengthening the bund and repacking the revetment under "42 Major works (working Expenses), Maintenance and repairs." It is considered that the bund should have 2 to 1 slopes in rear. The Supg: Engineer will be instructed to have the estimate sanctioned by him revised accordingly.

Order thereon No. 281 I, d/ 19.3.01

The estimate, amounting to Rs 4740 or Rs 5830 including the charge for establishment, for improvements to Vadagurai tank, Periyar project, is sanctioned.

2. This sanction is registered as No. 200. I. of 1900-1901

and will expire on the 31st March 1902.

3. The attention of the Supg: Engineer, 6th Circle, is drawn to para 3 of the foregoing note by the Chief Engineer for Irrigation.

2. Ordered that a copy of these Proceedings be forwarded to the Govt. of India for information.

Endorsement. No. 282 I, d/19.3.1.

Forwarded

12/3/01

Issue

W.H.

12.3.01

I

To,

The Chief Engineer for Irrig[illegible]

& Supg: Engineer, 6th C[illegible]

~~in msfs~~

with ~~24~~ 39 enclosures

& Examiner of PWA

DESPATCHED
3 APR 1901

12/3/01

12.3.01

DESPATCHED
3 APR 1901

13
281-82